



## **Bandwidth Assessment Tool**

Introduction and BETA Release

# Agenda

(5 min)	Introduction
(10 min)	Overview of Bandwidth Assessment Tool
(15 min)	View of the Tool
(10 min)	Potential Uses / Use Examples
(10 min)	Release – Schedule and Training / Support
(10 min)	Q&A



# Introduction



## State Broadband Initiative (SBI) Programs









#### **Areas of Expertise**

- Public Safety Planning and Implementation: Our public safety experience includes
  Next Generation 9-1-1 planning and implementation, land mobile radio, automated
  systems, wireless and broadband, Public Safety Answering Point (PSAP) operations,
  and governance and policy.
- **Broadband Planning:** We actively engage key stakeholders to quickly and thoroughly investigate innovative, desirable, and doable outcomes. The scenarios are tested, evaluated and easily converted into an action plan that is loaded into an online system to track progress and measure results.
- **Broadband Mapping:** We build integrated, interactive systems designed to provide meaningful context for broadband data. We collect, assemble, process, and visualize data using geographic and conceptual mapping techniques. These systems are built to inform planning processes, monitor change, and inform stakeholders.





#### Cincinnati – Seattle – Washington DC

- Internationally recognized as leading telecommunication network modeling, costing and profitability experts:
  - Broadband and USF models: CACM for the FCC, BAM used by FCC for NBP, CPM California, CPM Hong Kong, BCPM, NUSC Australia, CostPro-Core New Zealand
  - Loop model: CostQuest Local Loop in use by carriers with operations in over 35 states, adopted and well received by commissions in all UNE and Tax proceedings
  - Wireless Costing: States, CTIA, Wireless Carriers for more than 30 states, reverse auctions
  - Wireless Work: USAC Filings, Audits and Reviews, USAC/USF Workshops, GIS Analysis, Policy Support
  - Interconnection model: CostQuest-Core in use by the New Zealand Commerce Commission to set rates
  - Profitability models: COMPASS, MAPS, ProfitMap, CPMS, and MIDAS economic based contribution models over various business dimensions
- Global experience in developing, supporting regulatory and competitive practices.



# The <u>WHAT</u> and <u>WHY</u> of the Bandwidth Assessment Tool (BAT)



## The What and Why...

- Fueled by the realized benefits of information, communication, and commerce over the Internet, businesses and residential demand for more flexible, higher speed services are increasing. The need for additional bandwidth is expected to grow exponentially year over year, especially in densely populated or urban areas. Determining the appropriate bandwidth needed in a given area will therefore become an increasingly important task.
- CostQuest Associates/Link America has identified this need and has
  developed a web based Bandwidth Assessment Tool that helps
  consumers understand their broadband needs, helps state and local
  planners determine and meet the expanding broadband
  requirements of their businesses and communities, and connects
  supply (providers) with demand.



## The What and Why...

**Understanding Demand with the Bandwidth Assessment Tool** 

#### Two central issues:

- Helping businesses, Community
   Anchor Institutions (CAI) and consumers understand / articulate their broadband service requirements and connect with service providers.
- Supporting economic / community development initiatives as they work to identify (and aggregate) demand, promote availability and interact with providers.

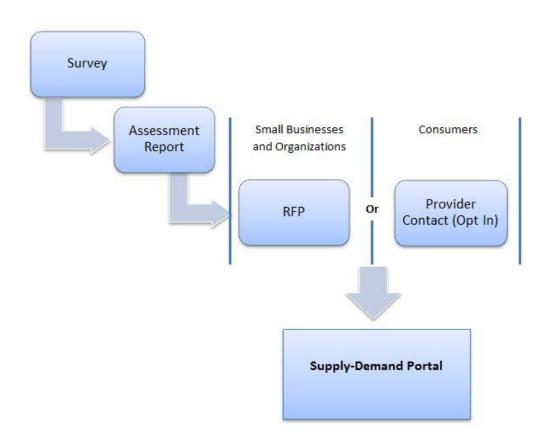


"The emerging broadband market is at times poorly informed...from both the supply and the demand side of the conversation. Businesses struggle to understand and articulate their requirements and providers are challenged to identify specific demand as it changes so quickly."



## The What and Why...

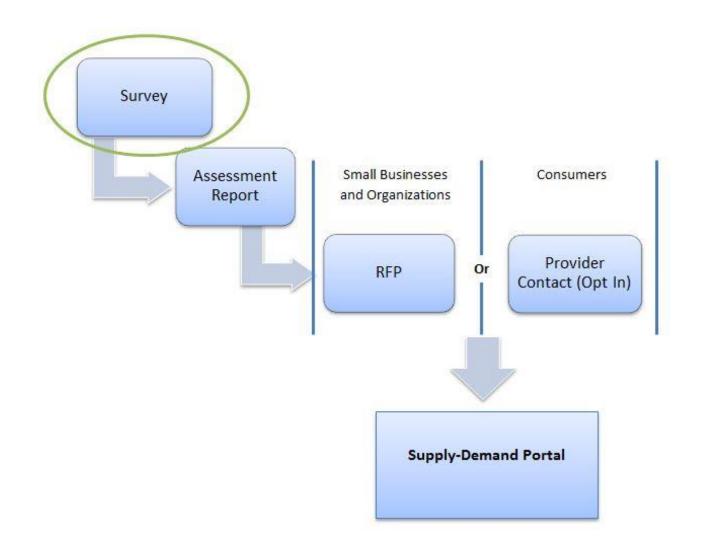
- Survey
- Assessment Report
- RFP Questionnaire
- Supply-Demand Portal





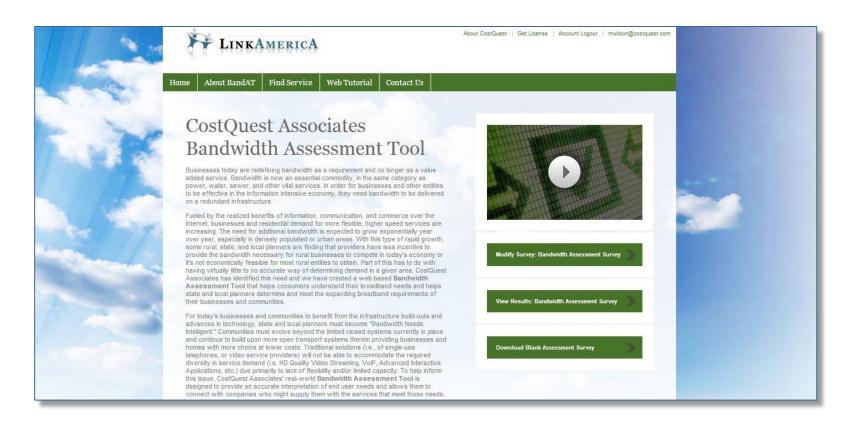


#### **Bandwidth Assessment Tool Overview**





#### **Understanding Demand with the Bandwidth Assessment Tool**



https://apps.costquest.com/bat/home



#### **Understanding Demand with the Bandwidth Assessment Tool**

#### **Areas of Assessment**

- Current service location, current speed, type of service, etc.
- User profile concurrent users, PCs/tablets, avg hours use per user, VOIP, etc.
- Video streaming time, minutes down/up loading, avg video use per user, etc.
- Social Media concurrent users, time on media per user per day, etc.
- Audio streaming time, minutes down/up loading, avg audio use per user, etc.
- Online apps and gaming concurrent users, avg online app hours per user, etc.
- Basic web concurrent users, number sites per user per day, email/attm qty, etc.
- Data files, smart phones/tablets software installs/updates per month, concurrent cloud users, megabytes backup per day per user, etc.



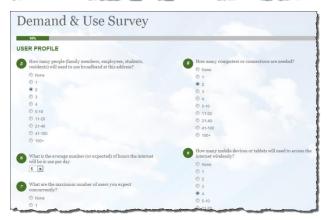
#### **Understanding Demand with the Bandwidth Assessment Tool**



Register as a user...and create a Group User, if warranted (e.g., Economic Development effort focused on a city/town)



Provide "current service" information



Provide "user profile" information



#### **Understanding Demand with the Bandwidth Assessment Tool**



Proceed thru the usage assessment...

... video

... voice

... social media

... audio

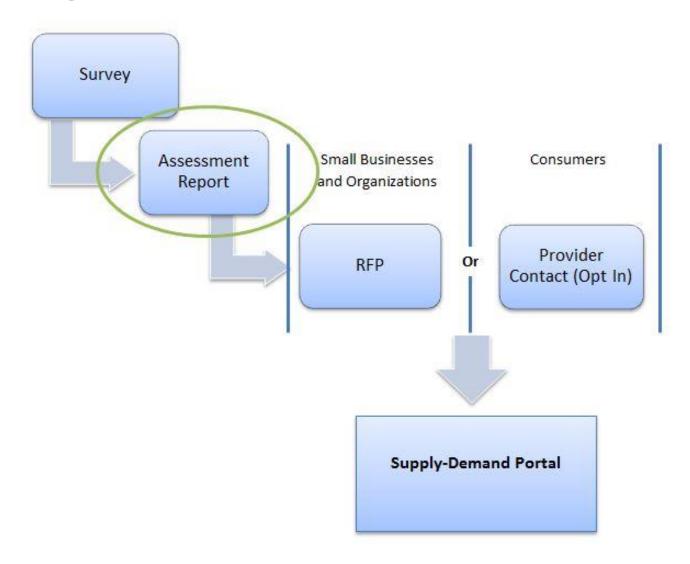
... online apps and gaming

... photos

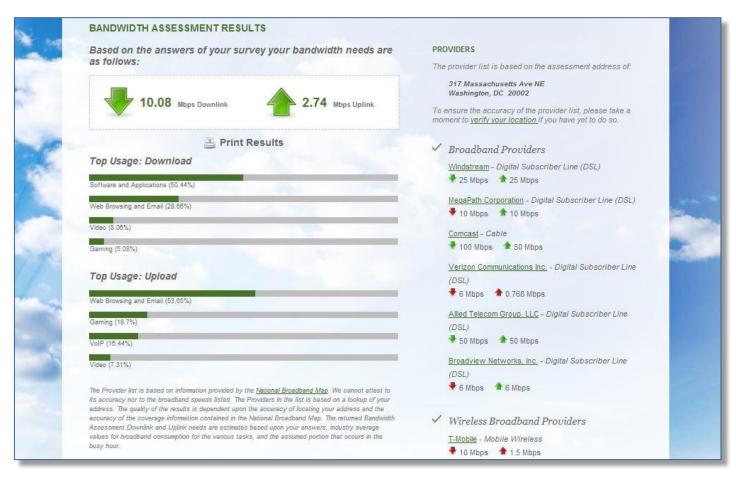
... data files, smartphones/tablets





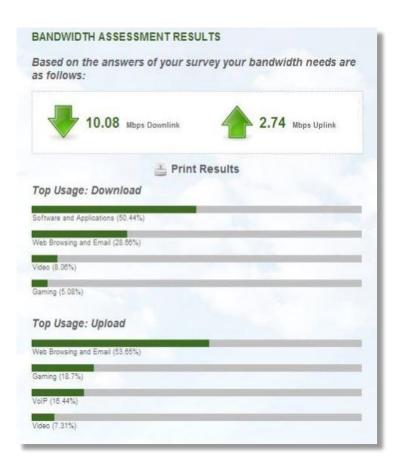




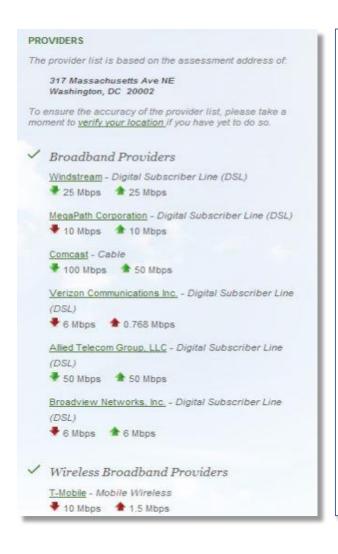




- Assessed Bandwidth Needs
- Download/Upload Usage
- Application Usage







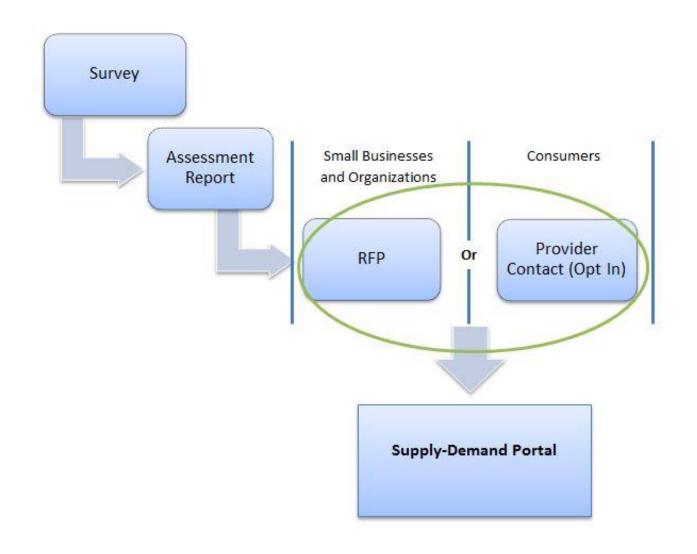
- Current Service
- Broadband Provider by Tech Type
- Assessed Speed Met?
- Current Advertised Speeds



# RFP / Procurement Options



## RFP / Procurement Options





## RFP/Procurement Options

**Understanding Demand with the Bandwidth Assessment Tool** 

#### **Businesses/Organizations**

- Mini RFP Questionnaire
- Automatic RFP Filed w/ Supply-Demand Portal
- Broadband Providers Respond Directly

#### **Consumers**

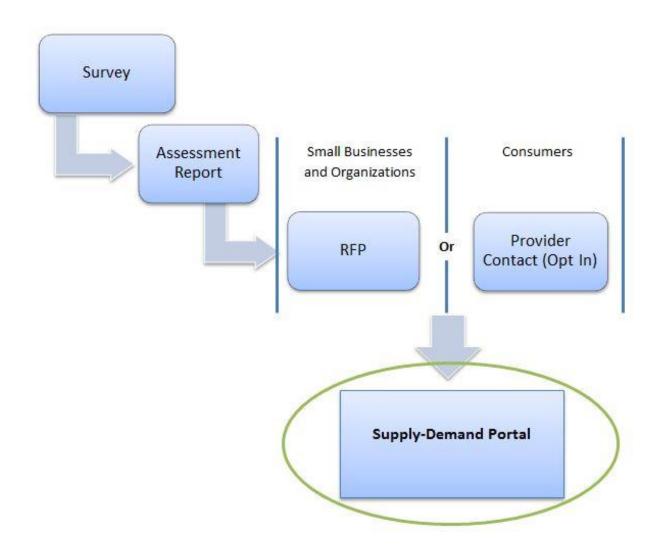
- Opt-In for Broadband Providers to Contact
- Personal Contact Information Protected



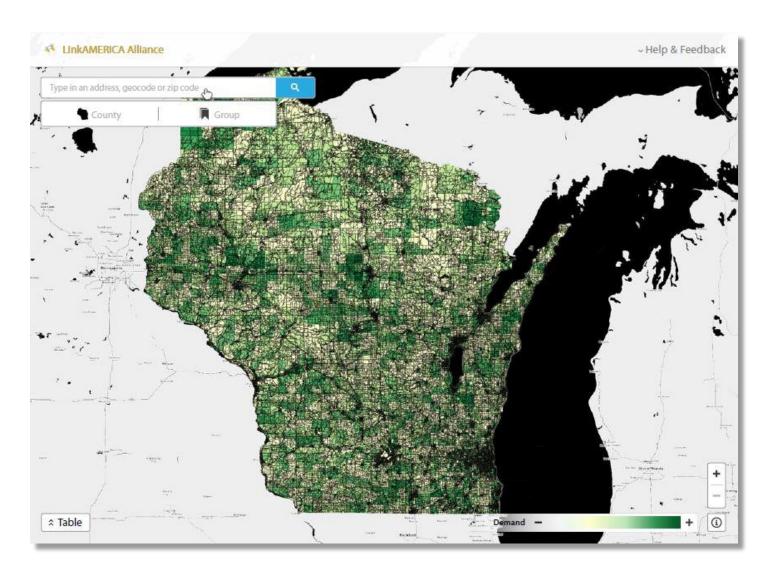
# Supply - Demand Portal



## **Supply-Demand Portal**

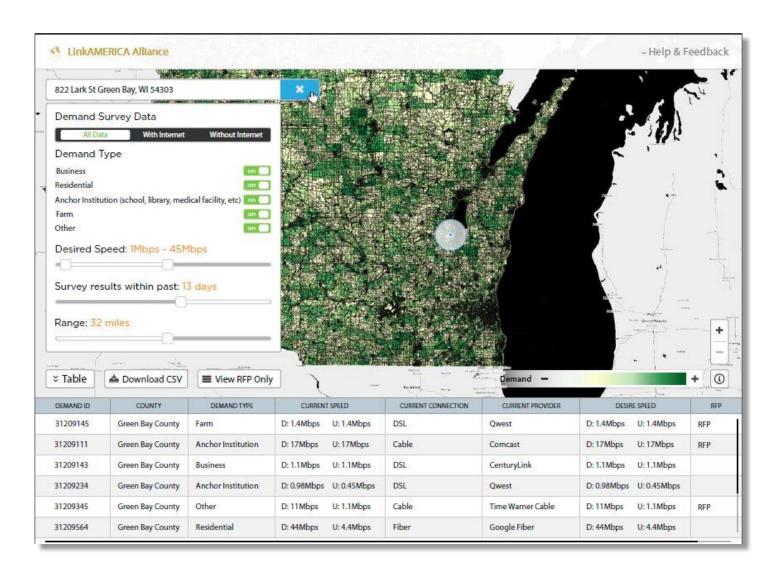






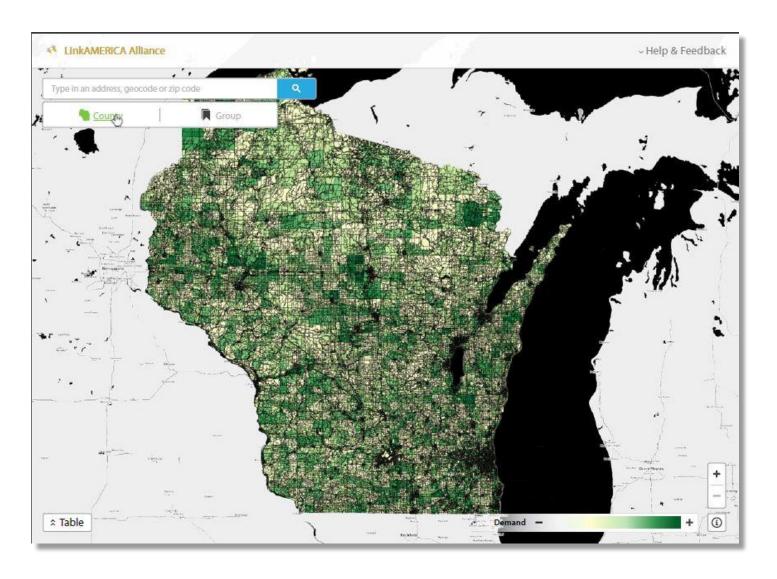
Supply & Demand Portal





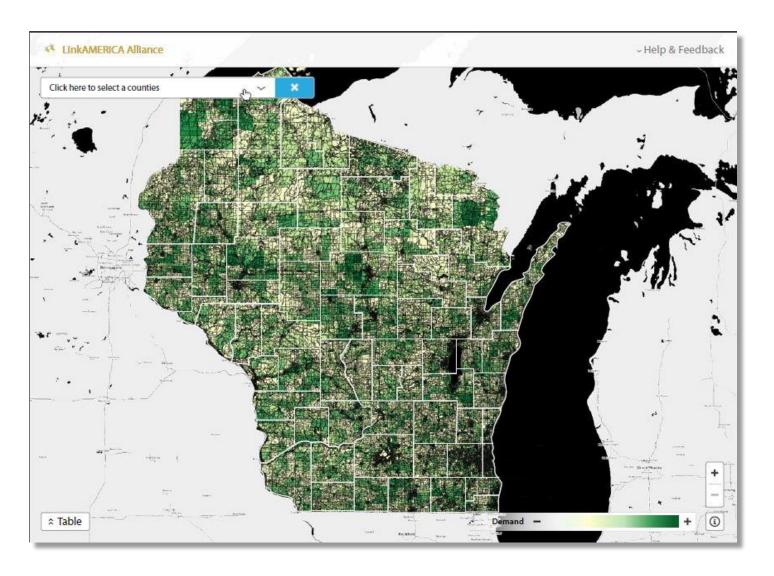
**Supply & Demand Portal** 





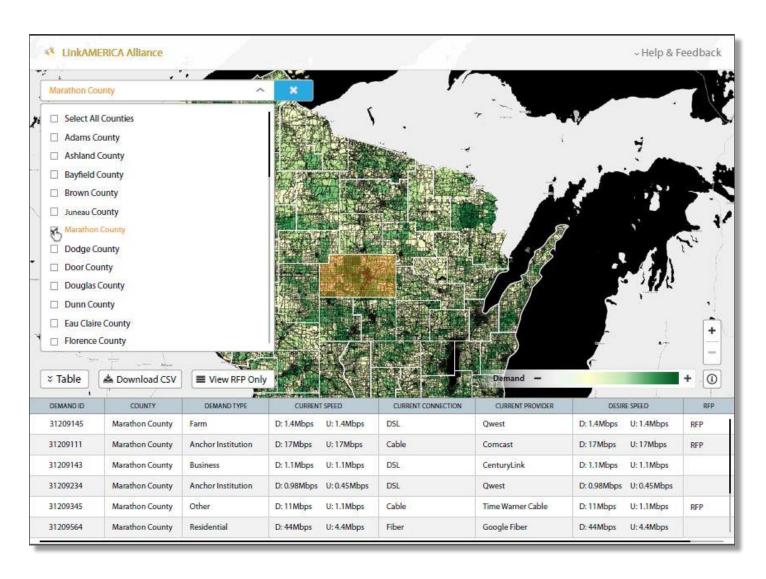
Supply & Demand Portal





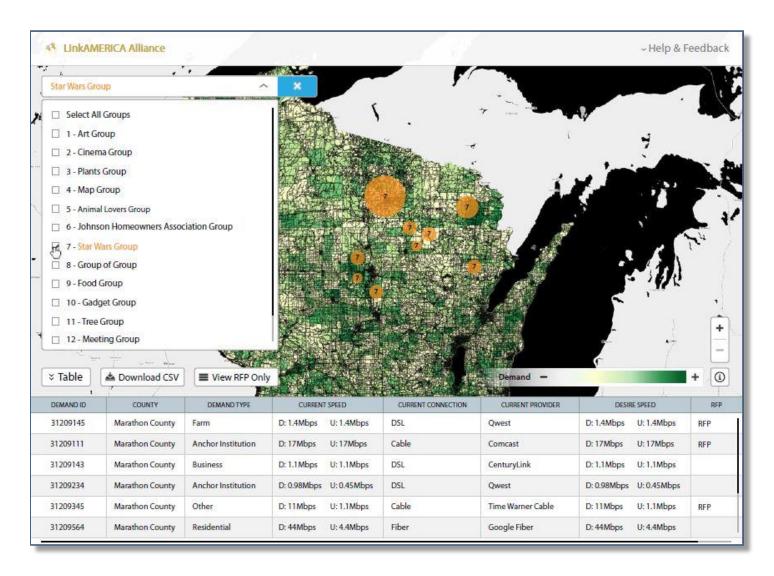
Supply & Demand Portal





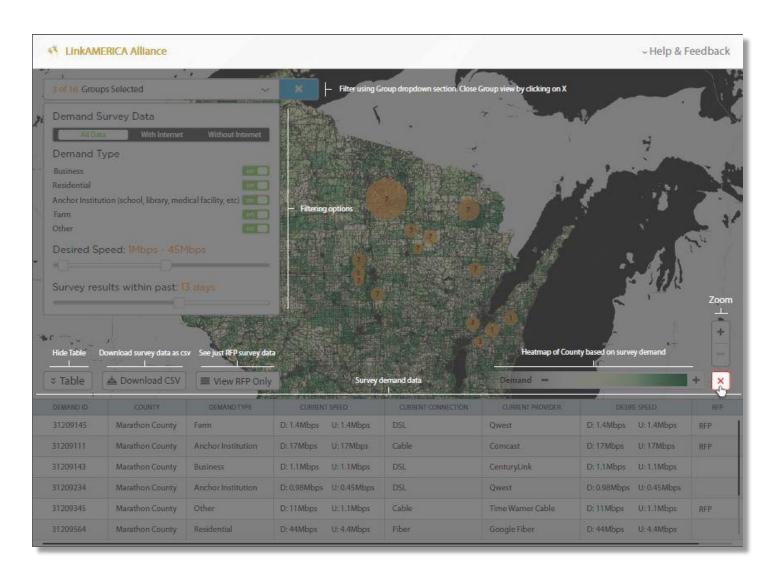
**Supply & Demand Portal** 





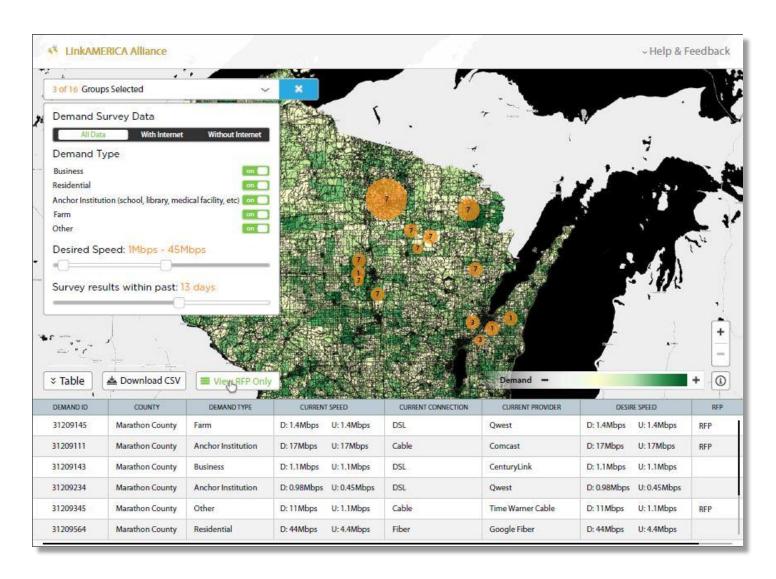
**Supply & Demand Portal** 





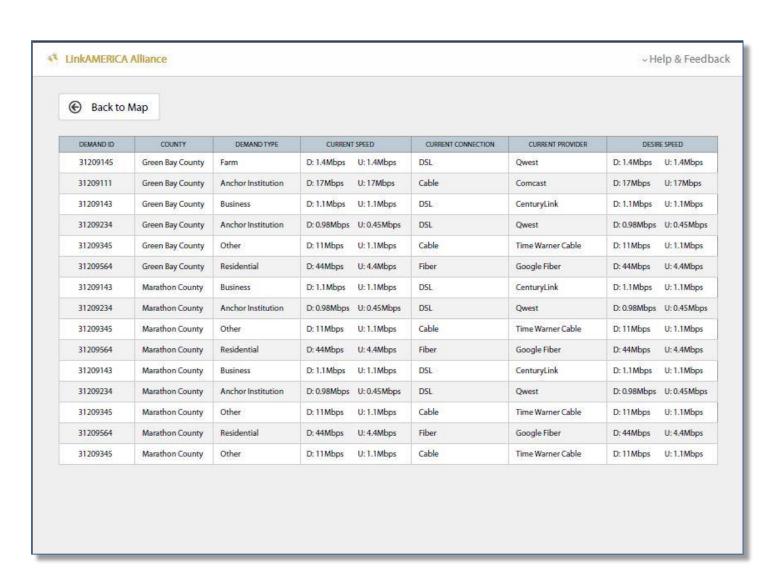
**Supply & Demand Portal** 





**Supply & Demand Portal** 





**Supply & Demand Portal** 



# **Potential Uses**



#### **Potential Uses**

**Understanding Demand with the Bandwidth Assessment Tool** 

#### **Use Case Scenarios**

- Community Leader/Economic Development
- Industry Group/Association
- Small Business Growth or Relocation



## Release Schedule & Training/Support



## Release Schedule/Support

**Understanding Demand with the Bandwidth Assessment Tool** 

#### **Release Schedule**

- BETA Assessment Survey and Report Application available now. <a href="https://apps.costquest.com/bat/home">https://apps.costquest.com/bat/home</a>
- BETA RFP/Procurement Functionality and Supply-Demand Portal available on January 31.
- Phase 2 Release Q2 2014



## Release Schedule/Support

**Understanding Demand with the Bandwidth Assessment Tool** 

#### **Training/Support**

- This Spring
- Webinar/Demos
  - Stakeholders/Community & Economic Development Orgs
  - Broadband Providers



# **Questions & Answers**

